

Field Employees' Elevator Testing Course



**3.0 contact hours credit
(.30 CEUs)**



Approved by:

- ♦ National Association of Elevator Contractors for CET®/CAT®
- ♦ NAESA for QEI
- ♦ States of: Alabama, Florida, Georgia, Kentucky, Pennsylvania, Virginia, Washington and West Virginia

Program Materials

The **Field Employees' Elevator Testing Course** is based on the book *Field Employees' Elevator Testing Manual*, which can be purchased separately from Elevator World.

This handbook was designed to provide a guide to persons assigned the task of performing various tests on electric and hydraulic passenger and freight elevators in the presence of a certified Elevator Inspector. This publication can help with understanding of what is being tested and a safe means to demonstrate the function. Updated to relate to the requirements stated in the *ASME A17.1 2007/CSA B44-07 Safety Code for Elevators and Escalators* through the *ASME A17.1b-2009/CSA B44b-09 Safety Code for Elevators and Escalators* and the *ASME A17.2-2007 Guide for Inspection of Elevators, Escalators and Moving Walks*.

Cost of manual: \$11.50 (non subscriber) or \$9.78 (EW subscribers)

Cost of exam: \$70.00 (non subscriber) or \$50.00 (EW subscriber)

Curriculum

The following are some areas of elevator testing that are covered:

I. CATEGORY ONE PERIODIC TEST OF ELECTRIC ELEVATORS

- A. Oil Buffer
- B. Governor
- C. Safety
- D. Slack-Rope Devices on Winding Drum Machines
- E. Normal Terminal Stopping Device
- F. Final Terminal Stopping Device
- G. Firefighters' Emergency Operation
- H. Standby Power
- I. Power Operation of Door System
- J. Static Control
- K. Broken Rope, Tape, or Chain Switch
- L. Ascending Car Overspeed Protection and Unintended Car Motion Devices
- M. AC Drives from a DC Source

II. CATEGORY FIVE PERIODIC TEST OF ELECTRIC ELEVATORS

- A. Oil Buffer
- B. Governor
- C. Safety
- D. Brake
- E. Standby Power
- F. Emergency Terminal Stopping and Speed-Limiting Devices
- G. Power Opening of Doors or Gates
- H. Emergency Stopping Distance and Traction Limit
- I. Emergency Brake

III. ACCEPTANCE TESTING OF ELECTRIC ELEVATORS

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|------------------------------------|---|
| A. Oil Buffer | H. Control Systems with Motor-Generator Set |
| B. Governor | I. Static Control |
| C. Safeties | J. AC Drives from a DC Source |
| D. Brake | K. Power Opening of Door or Gates |
| E. Standby Power | |
| F. Normal Terminal Stopping Device | |
| G. Final Terminal Stopping Device | |

IV. CATEGORY ONE PERIODIC TEST OF HYDRAULIC ELEVATORS

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|--|-------------------------------|
| A. Relief Valve | F. Flexible Hose and Fittings |
| B. Hydraulic Cylinder | G. Pressure Switch |
| C. Standby Power | H. Governor |
| D. Normal Terminal Stopping Device | I. Safeties |
| E. Emergency Terminal Stopping Device and Speed-Limiting Devices | |

V. CATEGORY FIVE PERIODIC TEST OF HYDRAULIC ELEVATORS

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|--------------------------|-----------------------|
| A. Governor | E. Plunger Gripper |
| B. Safeties | F. Overspeed Valves |
| C. Coated Rope Flux Test | G. Class C2 Load Test |
| D. Wire Rope Fastenings | |

VI. ACCEPTANCE TESTING OF HYDRAULIC ELEVATORS

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|------------------------------------|---|
| A. Working Pressure | H. Emergency Terminal Stopping and Speed-Limiting Devices |
| B. Stop Ring | I. Flexible Hose and Fittings |
| C. Relief Valve | J. Pressure Switch |
| D. Bottom Plunger Clearance | K. Governor |
| E. Hydraulic Cylinder | L. Safeties |
| F. Standby Power | |
| G. Normal Terminal Stopping Device | |

Course Specifics

- Applicants will be allowed one free retake of the exam. Subsequent retakes will be \$25.00 each.
- The test will consist of 56 questions.
- The testing company is **Exambuilder.com**. All testing will be on its server and Elevator World will be charged for each person taking the exam. A database of persons taking the test, along with their scores and dates, will be kept at Exambuilder.com and at Elevator World. All pertinent information will be kept in a database for a minimum of seven years.
- After the test is taken the student will be able to determine immediately if he or she passed or failed. **A passing score is 80%.** A follow-up email will be sent by Elevator World confirming the test score and setting up retakes if needed. A certificate of completion may be printed by the candidate.

Provider Information

Elevator World, Inc. is the largest publisher in the world devoted to the elevator industry: publishing a monthly journal; compiling the Elevator World SOURCE®, the most inclusive directory in the industry; publishing numerous books used for industry education; maintaining ELENET, a biweekly email newsletter; and developing the Elevator World online network, a group of specialized websites with more than 70,000 users a month. Elevator World is the publisher and distributor of the print-based materials for the four-year Certified Elevator Technician (CET) Education Program. The company is 62 years old and has played a key role in the transfer of knowledge in the vertical-transportation industry.

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